

Work Order ID 99537

Thursday, April 11, 2013 9:48:59 AM

\*99537\*

Ship  
ASMP  
Page 1

Item ID: 646.4003 Accept \*N9000040100\* Setup Start \*NS1\*  
Revision ID: Stop \*NS2\*  
Item Name: AS350 Cable Cutter w/o Fixed Provisions  
Start Date: 4/11/2013 Start Qty: 1.00 \*1\* Cust Item ID:  
Required Date: 4/12/2013 Req'd Qty: 1.00 \*1\* Customer:  
Reference:

Approvals: Process Plan: MF Date: 13-4-1 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| 646.4000 | A            |

100 DOCUMENT CONTROL 0.00  
\*100\*  
DC Memo 0.00  
Document Control Photocopy bluefile & type labels per PPP 646.4003  
DAS 16 13/04/12

110 Pick Kit 0.00  
\*110\*  
Packaging Memo 0.00  
Packaging  
1 13-04-12 JB

120 QC4- 100% Inspect kits for completeness 0.00  
\*120\*  
QC Memo 0.00  
Quality Control  
DAS 16 13/04/12  
(70)

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|   |      |      |   |   |                   |   |             |              |   |  |  |
|---|------|------|---|---|-------------------|---|-------------|--------------|---|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____  |      |      |   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |   |  |  |
| Root Cause  | Date | Step | Qty   | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector  |  |  |
| Doc/Data <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Equip/Tooling <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Operator <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Material <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Setup <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Other <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Process <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Supplier <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Training <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Unapproved <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>FAULT CATEGORY</b>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |   |                   | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions   |             |              | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |  |

Thursday, April 11, 2013 9:48:59 AM

**Item ID:** 646.4003

**Accept**

**\*N900040100\***

Setup Start \*NS1\*

Revision ID:

**Item Name:** AS350 Cable Cutter w/o Fixed Provisions

Stop \*NS2\*

**Start Date:** 4/11/2013      **Start Qty:** 1.00

**\* 1 \***

**Cust Item ID:**

**Required Date: 4/12/2013      Req'd Qty: 1.00**

**\* 1 \***

**Customer:**

**Reference:**

**Approvals:**      **Process Plan:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Tooling:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID- | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|----------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|----------|--------|--------------|---------------|---------------|------------------|----------------|

130

0.00

**\*130\***

## Packaging

0.00

## Packaging

## Memo

## Packaging

Identify and pack for shipping as per PPP 646.4003

Location:

140

QC21- Final Inspection - Work Order Release

0.00

**\*140\***

QC

## Memo

0.00

## Quality Control

1 8 13-4-12

MLJ 13-04-12

ms  
13-4-12

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |             |             |            |   |                          |   |                        |                     |                     |  |  |
|--|-------------|-------------|------------|---|--------------------------|---|------------------------|---------------------|---------------------|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |             |             |            | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                          | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                        |                     |                     |  |  |
| <b>Root Cause</b>  | <b>Date</b> | <b>Step</b> | <b>Qty</b> | <b>Description of work order update or Non-conformance</b>  | <b>Initial Chief Eng</b> | <b>Action Description</b>   | <b>Sign &amp; Date</b> | <b>Verification</b> | <b>QC Inspector</b> |  |  |
| Doc/Data <input type="checkbox"/>                            |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Equip/Tooling <input type="checkbox"/>                       |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Operator <input type="checkbox"/>                            |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Material <input type="checkbox"/>                            |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Setup <input type="checkbox"/>                               |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Other <input type="checkbox"/>                               |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Process <input type="checkbox"/>                             |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Supplier <input type="checkbox"/>                            |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Training <input type="checkbox"/>                            |             |             |            |   |                          |   |                        |                     |                     |  |  |
| Unapproved <input type="checkbox"/>                          |             |             |            |   |                          |   |                        |                     |                     |  |  |

| FAULT CATEGORY  |   |  |   |   |  |  |  |  |  |
|---|---|--|---|---|--|--|--|--|--|
| <b>Landing Gear</b>                                   |   |  | <b>General</b>                                |   |  |  |  |  |  |
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           | <input type="checkbox"/> Ovalized             | <input type="checkbox"/> Pressure/Forced    |  |  |  |  |  |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        | <input type="checkbox"/> Over/Under tolerance | <input type="checkbox"/> Temperature/Cure   |  |  |  |  |  |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           | <input type="checkbox"/> Part Incorrect       | <input type="checkbox"/> Weld               |  |  |  |  |  |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Lost/Missing    | <input type="checkbox"/> Wrong Stock Pulled |  |  |  |  |  |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     | <input type="checkbox"/> Part Moved           |   |  |  |  |  |  |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      | <input type="checkbox"/> Positioned Wrong     |   |  |  |  |  |  |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         | <input type="checkbox"/> Power Loss/Surge     | <input type="checkbox"/> Other              |  |  |  |  |  |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          |   |   |  |  |  |  |  |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              |   |   |  |  |  |  |  |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 |   |   |  |  |  |  |  |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              |   |   |  |  |  |  |  |

# Picklist Print

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.12.23 NEW ISSUE DD VERF:JLM

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

646.3301  
Upper Cutter Assembly

Manufactured

No

Each 36.0000

1

Location

Loc Qty

Loc Code

ST139A

16

125083

16

ST545

20

93247

20

93247

646.3001  
Lower Cutter Assembly

Manufactured

No

Each 19.0000

1

Location

Loc Qty

Loc Code

ST139A

19

125083

19

125083

646.2910  
Deflector

Manufactured

No

Each 16.0000

1

Location

Loc Qty

Loc Code

ST139A

16

125083

16

125083

646.3510  
Strut

Manufactured

No

Each 13.0000

1

Location

Loc Qty

Loc Code

ST139B

13

125083

13

125083

646.3511  
Strut

Manufactured

No

Each 12.0000

1

Location

Loc Qty

Loc Code

ST

12

125023

12

125083

13-04-12

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|   |      |      |   |   |                   |   |             |              |   |  |  |
|---|------|------|---|---|-------------------|---|-------------|--------------|---|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____  |      |      |   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |   |  |  |
| Root Cause  | Date | Step | Qty   | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector  |  |  |
| Doc/Data <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Equip/Tooling <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Operator <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Material <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Setup <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Other <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Process <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Supplier <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Training <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Unapproved <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>FAULT CATEGORY</b>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |   |                   | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions   |             |              | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |  |

# Picklist Print

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Page 2

Work Order ID: 99537

Parent Item: 646.4003

Start Date: 4/11/2013

Required Date: 4/12/2013

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Qty: 1.00

Required Qty: 1.00

646.3512 Manufactured No Each 11.0000

1 - JB

|  | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |
|--|-----------------|----------------|-----------------|
|  | ST139A          | 11             |                 |
|  | 125083          | 11             |                 |

125083

646.3513 Manufactured No Each 34.0000

1 - JB

|  | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |
|--|-----------------|----------------|-----------------|
|  | ST139A          | 34             |                 |
|  | 125083          | 34             |                 |

125083

NAS1149F0332P Purchased No Each 8,826.0000

116 ✓ JB

|  | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |
|--|-----------------|----------------|-----------------|
|  | GA              | 182            |                 |
|  | 122063          | 182            |                 |
|  | ST294           | 158            |                 |
|  | 122063          | 158            |                 |
|  | ST295           | 3              |                 |
|  | 123352          | 3              |                 |
|  | st510           | 8483           |                 |
|  | 123900          | 8483           |                 |

123900

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Shop Packet Print

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NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|   |      |      |   |   |                   |   |             |              |   |  |  |
|---|------|------|---|---|-------------------|---|-------------|--------------|---|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____  |      |      |   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |   |  |  |
| Root Cause  | Date | Step | Qty   | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector  |  |  |
| Doc/Data <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Equip/Tooling <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Operator <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Material <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Setup <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Other <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Process <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Supplier <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Training <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Unapproved <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>FAULT CATEGORY</b>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |   |                   | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions   |             |              | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |  |



# Picklist Print

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Page 3

Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased No

Each 4,883.0000

55

Nut

Location

Loc Qty

Loc Code

FP001

3

122141

3

GA

119

122452

119

ST314

268

117885

32

119017

55

119075

138

123265

43

ST506

4493

123900

976

124291

3517

124291

646.3110

Manufactured No

Each 7.0000

1

Channel

Location

Loc Qty

Loc Code

ST139A

7

125083

7

125083

MS24694-S51

Purchased No

Each 113.0000

5

Screw

Location

Loc Qty

Loc Code

ST303

113

116805

1

123741

112

123741

AN3-13A

Purchased No

Each 96.0000

1

Bolt

Location

Loc Qty

Loc Code

ST351

46

104746

16

120910

30

ST512

50

123759

50

104746

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Page 3

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|   |      |      |   |   |                   |   |             |              |   |  |  |
|---|------|------|---|---|-------------------|---|-------------|--------------|---|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____  |      |      |   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |   |  |  |
| Root Cause  | Date | Step | Qty   | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector  |  |  |
| Doc/Data <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Equip/Tooling <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Operator <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Material <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Setup <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Other <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Process <input type="checkbox"/>  |      |      |   |   |                   |   |             |              |   |  |  |
| Supplier <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Training <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| Unapproved <input type="checkbox"/>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>FAULT CATEGORY</b>   |      |      |   |   |                   |   |             |              |   |  |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |      |      | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |   |                   | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions   |             |              | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |  |

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

|              |                 |    |                |                 |                 |
|--------------|-----------------|----|----------------|-----------------|-----------------|
| 646.3711     | Manufactured    | No | Each           | 12.0000         | 1 - JB          |
| Clip         |                 |    |                |                 |                 |
|              | <u>Location</u> |    | <u>Loc Qty</u> | <u>Loc Code</u> |                 |
|              | ST139B          |    | 12             |                 |                 |
|              | 125083          |    | 12             |                 | 125083          |
| 646.3712     | Manufactured    | No | Each           | 12.0000         | 1 - JB          |
| Clip         |                 |    |                |                 |                 |
|              | <u>Location</u> |    | <u>Loc Qty</u> | <u>Loc Code</u> |                 |
|              | ST139B          |    | 12             |                 |                 |
|              | 125083          |    | 12             |                 | 125083          |
| 646.3811     | Manufactured    | No | Each           | 39.0000         | 1 - JB          |
| Radius Block |                 |    |                |                 |                 |
|              | <u>Location</u> |    | <u>Loc Qty</u> | <u>Loc Code</u> |                 |
|              | ST139A          |    | 39             |                 |                 |
|              | 125083          |    | 19             |                 | 125083          |
|              | 93224           |    | 20             |                 |                 |
| AN3-6A       | Purchased       | No | Each           | 451.0000        | 2 - JB 12-04-12 |
| Bolt         |                 |    |                |                 |                 |
|              | <u>Location</u> |    | <u>Loc Qty</u> | <u>Loc Code</u> |                 |
|              | ST350           |    | 300            |                 |                 |
|              | 124296          |    | 300            |                 |                 |
|              | ST351           |    | 61             |                 |                 |
|              | 117441          |    | 34             |                 |                 |
|              | 121166          |    | 13             |                 |                 |
|              | 122993          |    | 10             |                 |                 |
|              | 123831          |    | 4              |                 |                 |
|              | ST512           |    | 90             |                 |                 |
|              | 122814          |    | 90             |                 | 122814          |

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NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|   |             |             |   |   |                          |   |                        |                     |   |  |  |
|---|-------------|-------------|---|---|--------------------------|---|------------------------|---------------------|---|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____  |             |             |   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                          | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                        |                     |   |  |  |
| <b>Root Cause</b>   | <b>Date</b> | <b>Step</b> | <b>Qty</b>  | <b>Description of work order update or Non-conformance</b>  | <b>Initial Chief Eng</b> | <b>Action Description</b>   | <b>Sign &amp; Date</b> | <b>Verification</b> | <b>QC Inspector</b>   |  |  |
| Doc/Data <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Equip/Tooling <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Operator <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Material <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Setup <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Other <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Process <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Supplier <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Training <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Unapproved <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| <b>FAULT CATEGORY</b>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |             |             | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |   |                          | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions   |                        |                     | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |  |

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

|              |              |                 |                |                 |        |               |
|--------------|--------------|-----------------|----------------|-----------------|--------|---------------|
| MS24694-S55  | Purchased    | No              | Each           | 93.0000         | 1      | - JB          |
| Screw        |              |                 |                |                 |        |               |
|              |              | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |        |               |
|              |              | ST303           | 93             |                 |        |               |
|              |              | 123758          | 1              |                 | 123758 |               |
|              |              | 124296          | 92             |                 |        |               |
| 646.3610     | Manufactured | No              | Each           | 28.0000         | 1      | - JB          |
| Filler       |              |                 |                |                 |        |               |
|              |              | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |        |               |
|              |              | 125083          | 16             |                 |        |               |
|              |              | 125083          | 16             |                 |        |               |
|              |              | ST139A          | 12             |                 |        |               |
|              |              | 93434           | 12             |                 | 93434  |               |
| AN3-5A       | Purchased    | No              | Each           | 1,111.0000      | 2      | - JB          |
| Bolt         |              |                 |                |                 |        |               |
|              |              | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |        |               |
|              |              | FP001           | 92             |                 |        |               |
|              |              | 122800          | 92             |                 |        |               |
|              |              | GA              | 120            |                 |        |               |
|              |              | 117423          | 120            |                 |        |               |
|              |              | ST350           | 22             |                 |        |               |
|              |              | 120187          | 22             |                 |        |               |
|              |              | ST512           | 877            |                 |        |               |
|              |              | 122416          | 77             |                 | 122416 |               |
|              |              | 124561          | 800            |                 |        |               |
| MS27039-1-12 | Purchased    | No              | Each           | 175.0000        | 6      | - JB 13-04-12 |
| Screw        |              |                 |                |                 |        |               |
|              |              | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |        |               |
|              |              | Mezz            | 175            |                 |        |               |
|              |              | 100993          | 175            |                 | 100993 |               |

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NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

|   |   |   |
|---|---|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |
|   |   | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge  |
|   |   | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other   |

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

|                           |              |    |                 |                |                 |             |
|---------------------------|--------------|----|-----------------|----------------|-----------------|-------------|
| 646.3716<br>Gauge Bracket | Manufactured | No | Each            | 14.0000        | 1               | - JB        |
|                           |              |    |                 |                |                 |             |
|                           |              |    | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |             |
|                           |              |    | 125083          | 14             |                 |             |
|                           |              |    | 125083          | 14             |                 | 125083      |
| MS20426AD5-7<br>Rivet     | Purchased    | No | Each            | 827.0000       | 2               | JB          |
|                           |              |    |                 |                |                 |             |
|                           |              |    | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |             |
|                           |              |    | ST334           | 827            |                 |             |
|                           |              |    | 101340          | 827            |                 | 101340      |
| MS24694-S54<br>Screw      | Purchased    | No | Each            | 78.0000        | 2               | JB          |
|                           |              |    |                 |                |                 |             |
|                           |              |    | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |             |
|                           |              |    | ST303           | 78             |                 |             |
|                           |              |    | 123900          | 3              |                 | 123900      |
|                           |              |    | 124859          | 75             |                 |             |
| MS27039-1-21<br>SCREW     | Purchased    | No | Each            | 347.0000       | 4               | JB          |
|                           |              |    |                 |                |                 |             |
|                           |              |    | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |             |
|                           |              |    | ST306           | 47             |                 |             |
|                           |              |    | 115935          | 47             |                 | 115935      |
|                           |              |    | ST506           | 300            |                 |             |
|                           |              |    | 124326          | 300            |                 |             |
| MS27039-1-20<br>Screw     | Purchased    | No | Each            | 480.0000       | 2               | JB 12-04-12 |
|                           |              |    |                 |                |                 |             |
|                           |              |    | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u> |             |
|                           |              |    | st510           | 480            |                 |             |
|                           |              |    | 124326          | 480            |                 | 124326      |

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Shop Packet Print

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NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |  |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|--|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube <input type="checkbox"/></td> <td style="width:15%;">Crosstube <input type="checkbox"/></td> <td style="width:15%;">Water Jet <input type="checkbox"/></td> <td style="width:15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>   | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>   | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>   | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>  |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

### FAULT CATEGORY

|   |   |   |
|---|---|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |
|---|---|---|

☐ Ovalized  
☐ Over/Under tolerance  
☐ Part Incorrect  
☐ Part Lost/Missing  
☐ Part Moved  
☐ Positioned Wrong  
☐ Power Loss/Surge

☐ Pressure/Forced  
☐ Temperature/Cure  
☐ Weld  
☐ Wrong Stock Pulled  
☐ Other



# Picklist Print

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased No

Each 892.0000

22 ✓

Screw

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST306    | 102     |          |
| 122814   | 2       |          |
| 123522   | 100     |          |
| ST506    | 790     |          |
| 124326   | 790     |          |

124326

646.3718

Manufactured No

Each 65.0000

2

Custom Washer

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST139A   | 27      |          |
| 125083   | 27      |          |
| ST522    | 38      |          |
| 93365    | 38      |          |

125083

AN3-11A

Purchased No

Each 680.0000

8

Bolt

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST351    | 80      |          |
| 123525   | 80      |          |
| ST512    | 600     |          |
| 115457   | 100     |          |
| 123352   | 200     |          |
| 123759   | 300     |          |

123525

600.0990

Purchased No

Each 19.0000

1

Magnabond 6398 Part A (One 4 oz can)

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST       | 19      |          |
| 125051   | 19      |          |

125051

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Shop Packet Print

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NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

|   |   |   |
|---|---|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |
|   |   | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge  |
|   |   | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other   |

# Picklist Print

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No Each 19.0000

Magnabond 6398 Part B (One 4 oz can)

1 - JB

Location Loc Qty Loc Code

ST 19

125051 19

125051

1 - JB

600.1012 Purchased No Each 19.0000

Sealant (One 6 oz Semkit)

Location Loc Qty Loc Code

ST 19

125051 19

125051

8 - JB

600.0129 Purchased No f 208.0000

VHB Tape (75935A651 mcmaster)

Location Loc Qty Loc Code

ST 208

125031 208

125031

5 - JB

600.1013 Purchased No Each 995.0000

Tape Primer

Location Loc Qty Loc Code

ST139A 995

125154 995

125154

4 - JB

646.3910 Manufactured No Each 76.0000

Shim

Location Loc Qty Loc Code

ST139B 26

125083 26

ST139d 50

93238 50

125083

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NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |   |                   |                    |             |              |              |
| Operator      |      |      |     |   |                   |                    |             |              |              |
| Material      |      |      |     |   |                   |                    |             |              |              |
| Setup         |      |      |     |   |                   |                    |             |              |              |
| Other         |      |      |     |   |                   |                    |             |              |              |
| Process       |      |      |     |   |                   |                    |             |              |              |
| Supplier      |      |      |     |   |                   |                    |             |              |              |
| Training      |      |      |     |   |                   |                    |             |              |              |
| Unapproved    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

| Landing Gear  | General                                 | Other  |
|---|---|--|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Misabeled                       |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              |
|   |   | <input type="checkbox"/> Ovalized                        |
|   |   | <input type="checkbox"/> Over/Under tolerance            |
|   |   | <input type="checkbox"/> Part Incorrect                  |
|   |   | <input type="checkbox"/> Part Lost/Missing               |
|   |   | <input type="checkbox"/> Part Moved                      |
|   |   | <input type="checkbox"/> Positioned Wrong                |
|   |   | <input type="checkbox"/> Power Loss/Surge                |
|   |   | <input type="checkbox"/> Pressure/Forced                 |
|   |   | <input type="checkbox"/> Temperature/Cure                |
|   |   | <input type="checkbox"/> Weld                            |
|   |   | <input type="checkbox"/> Wrong Stock Pulled              |
|   |   | <input type="checkbox"/> Other                           |

# Picklist Print

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Work Order ID: 99537

Parent Item: 646.4003

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013

Required Date: 4/12/2013

Start Qty: 1.00

Required Qty: 1.00

646.3911 Shim Manufactured No Each 22.0000

1

Location Loc Qty Loc Code

ST139A 2

125083 2

ST139d 20

93362 20

125083

646.3912 Shim Manufactured No Each 77.0000

4

Location Loc Qty Loc Code

ST139A 26

125083 26

ST139d 51

93423 51

125803

646.3913 Shim Manufactured No Each 37.0000

1

Location Loc Qty Loc Code

ST139B 17

125083 17

ST139d 20

93160 20

125083

AN3-12A Bolt Purchased No Each 65.0000

2

Location Loc Qty Loc Code

GA 6

122407 6

ST351 5

114536 1

123352 4

ST512 54

123759 54

123759

13-04-12

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Page 9

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |      |      |     |   |                   |   |             |              |              |  |  |
|--|------|------|-----|---|-------------------|---|-------------|--------------|--------------|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |      |      |     | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |              |  |  |
| Root Cause   | Date | Step | Qty | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector |  |  |
| Doc/Data <input type="checkbox"/>                            |      |      |     |   |                   |   |             |              |              |  |  |
| Equip/Tooling <input type="checkbox"/>                       |      |      |     |   |                   |   |             |              |              |  |  |
| Operator <input type="checkbox"/>                            |      |      |     |   |                   |   |             |              |              |  |  |
| Material <input type="checkbox"/>                            |      |      |     |   |                   |   |             |              |              |  |  |
| Setup <input type="checkbox"/>                               |      |      |     |   |                   |   |             |              |              |  |  |
| Other <input type="checkbox"/>                               |      |      |     |   |                   |   |             |              |              |  |  |
| Process <input type="checkbox"/>                             |      |      |     |   |                   |   |             |              |              |  |  |
| Supplier <input type="checkbox"/>                            |      |      |     |   |                   |   |             |              |              |  |  |
| Training <input type="checkbox"/>                            |      |      |     |   |                   |   |             |              |              |  |  |
| Unapproved <input type="checkbox"/>                          |      |      |     |   |                   |   |             |              |              |  |  |

| FAULT CATEGORY  |   |  |   |   |  |  |  |  |  |
|---|---|--|---|---|--|--|--|--|--|
| Landing Gear  |   |  | General                                       |   |  |  |  |  |  |
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           | <input type="checkbox"/> Ovalized             | <input type="checkbox"/> Pressure/Forced    |  |  |  |  |  |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        | <input type="checkbox"/> Over/Under tolerance | <input type="checkbox"/> Temperature/Cure   |  |  |  |  |  |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           | <input type="checkbox"/> Part Incorrect       | <input type="checkbox"/> Weld               |  |  |  |  |  |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Lost/Missing    | <input type="checkbox"/> Wrong Stock Pulled |  |  |  |  |  |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     | <input type="checkbox"/> Part Moved           |   |  |  |  |  |  |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      | <input type="checkbox"/> Positioned Wrong     |   |  |  |  |  |  |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         | <input type="checkbox"/> Power Loss/Surge     | <input type="checkbox"/> Other              |  |  |  |  |  |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          |   |   |  |  |  |  |  |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              |   |   |  |  |  |  |  |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 |   |   |  |  |  |  |  |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              |   |   |  |  |  |  |  |

# Picklist Print

Thursday, April 11, 2013 9:48:58 AM

Page 10

Work Order ID: 99537

Parent Item: 646.4003

Start Date: 4/11/2013

Required Date: 4/12/2013

Parent Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-16

Purchased

No

Each

72.0000

Screw

2 - JB 13-04-12

Location

Loc Qty

Loc Code

ST306

72

122993

72

122993

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |      |      |     |   |                   |   |             |              |              |  |  |
|--|------|------|-----|---|-------------------|---|-------------|--------------|--------------|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |      |      |     | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |              |  |  |
| Root Cause   | Date | Step | Qty | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector |  |  |
| Doc/Data   |      |      |     |   |                   |   |             |              |              |  |  |
| Equip/Tooling  |      |      |     |   |                   |   |             |              |              |  |  |
| Operator   |      |      |     |   |                   |   |             |              |              |  |  |
| Material   |      |      |     |   |                   |   |             |              |              |  |  |
| Setup  |      |      |     |   |                   |   |             |              |              |  |  |
| Other  |      |      |     |   |                   |   |             |              |              |  |  |
| Process  |      |      |     |   |                   |   |             |              |              |  |  |
| Supplier   |      |      |     |   |                   |   |             |              |              |  |  |
| Training   |      |      |     |   |                   |   |             |              |              |  |  |
| Unapproved   |      |      |     |   |                   |   |             |              |              |  |  |

| FAULT CATEGORY  |   |   |   |  |
|---|---|---|---|--|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |



# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03079

SHEET 1 OF 1

DWG NO. 646.4000

REV: A

PREPARED BY: N.CAP

DATE: 03/21/11

EFFECT ON DWG  
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]*

QC *[Signature]*

EFF: NEXT ORDER

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

| REF | REF | REF | 65  | 647.5701 | GPS MOUNT KIT |                |      |       |
|-----|-----|-----|-----|----------|---------------|----------------|------|-------|
|     |     | 66  | 64  | 601.3151 | WASHER        | NS247702P      |      |       |
|     |     | 67  | 63  | 601.2911 | SCREW         | NS246943S3     |      |       |
|     |     | 68  | 62  | 601.2637 | SCREW         | NS27639-1-16   |      |       |
|     |     | 69  | 61  | 601.2763 | BOLT          | NS246943S3     |      |       |
|     |     | 70  | 60  | 646.3913 | SHIM          |                |      |       |
|     |     | 71  | 59  | 646.3912 | SHIM          |                |      |       |
|     |     | 72  | 58  | 646.3911 | SHIM          |                |      |       |
|     |     | 73  | 57  | 646.3910 | SHIM          |                |      |       |
|     |     | 74  | 56  | 600.1013 | PRIMER        |                |      |       |
|     |     | 75  | 55  | 600.0129 | VHB TAPE      |                |      |       |
|     |     | 76  | 54  | 600.1012 | SEALANT       | FR-402 CLASS B |      |       |
| ASH | ASB | ASC | ADD | FIND #   | PART #        | DESCRIPTION    | MATL | SPEC. |

|     |     |     |          |                      |              |             |      |       |
|-----|-----|-----|----------|----------------------|--------------|-------------|------|-------|
| 1   | 1   | 53  | 600.0991 | HARDWARE 6398 PART B |              |             |      |       |
| 1   | 1   | 52  | 600.0990 | HARDWARE 6398 PART A |              |             |      |       |
| 8   | 8   | 51  | 601.2826 | BOLT                 | NS246943S3   |             |      |       |
|     | 2   | 50  | 646.3814 | VIPER BRACKET        |              |             |      |       |
|     | 2   | 49  | 601.2910 | SCREW                | NS27639-1-18 |             |      |       |
| 2   | 2   | 48  | 601.1365 | SCREW                | NS27639-1-18 |             |      |       |
| 2   | 2   | 47  | 646.3719 | DOUBLER              |              |             |      |       |
|     | 2   | 46  | 646.3718 | CUSTOM WASHER        |              |             |      |       |
| 1   | 1   | 45  | 646.3717 | DOUBLER              |              |             |      |       |
| 22  | 2   | 44  | 601.1948 | SCREW                | NS27639-1-19 |             |      |       |
| 2   | 2   | 43  | 601.1952 | SCREW                | NS27639-1-20 |             |      |       |
| 4   | 4   | 42  | 601.1956 | SCREW                | NS27639-1-21 |             |      |       |
| 2   | 2   | 41  | 601.2829 | SCREW                | NS246943S4   |             |      |       |
| 2   | 2   | 40  | 601.2831 | RIVET                | NS246943S5-7 |             |      |       |
| 1   | 1   | 39  | 646.3716 | GAUGE BRACKET        |              |             |      |       |
| 6   | 6   | 38  | 601.1953 | SCREW                | NS27639-1-12 |             |      |       |
| 2   | 2   | 37  | 646.3715 | STRUT DOUBLER        |              |             |      |       |
| 2   | 2   | 36  | 601.2824 | BOLT                 | NS246943S5   |             |      |       |
| 36  | 36  | 35  | 601.2277 | RIVET                | NS246943S6   |             |      |       |
| 18  | 18  | 34  | 600.0795 | NUTPLATE             | NS246943S7   |             |      |       |
| 3   | 3   | 33  | 601.2565 | RIVET                | NS246943S8   |             |      |       |
| 1   | 1   | 32  | 646.3813 | STRUT BRACKET        |              |             |      |       |
| 4   | 4   | 31  | 601.2822 | BOLT                 | NS246943S9   |             |      |       |
| 2   | 2   | 30  | 646.3812 | GUSSET BRACKET       |              |             |      |       |
| 8   | 8   | 29  | 601.2564 | RIVET                | NS246943S10  |             |      |       |
| 1   | 1   | 28  | 646.3714 | GUSSET               |              |             |      |       |
|     | 1   | 27  | 646.3610 | FILLER               |              |             |      |       |
|     | 1   | 26  | 601.2830 | SCREW                | NS246943S11  |             |      |       |
|     | 2   | 25  | 601.2825 | BOLT                 | NS246943S12  |             |      |       |
|     | 1   | 24  | 646.3811 | RADIUS BLOCK         |              |             |      |       |
|     | 1   | 23  | 646.3712 | CLIP                 |              |             |      |       |
|     | 1   | 22  | 646.3711 | CLIP                 |              |             |      |       |
| 8   | 8   | 21  | 601.2832 | RIVET                | NS246943S13  |             |      |       |
| 14  | 14  | 20  | 601.2020 | RIVET                | NS246943S14  |             |      |       |
| 10  | 10  | 19  | 601.2823 | BOLT                 | NS246943S15  |             |      |       |
|     | 1   | 18  | 601.2827 | BOLT                 | NS246943S16  |             |      |       |
|     | 5   | 17  | 601.2912 | SCREW                | NS246943S17  |             |      |       |
|     | 1   | 16  | 646.3713 | GUSSET               |              |             |      |       |
|     | 1   | 15  | 646.3610 | SUPPORT              |              |             |      |       |
|     | 1   | 14  | 646.3710 | DOUBLER              |              |             |      |       |
|     | 1   | 13  | 646.3110 | CHANNEL              |              |             |      |       |
| 8   | 55  | 12  | 601.1624 | LIDCLOUT             | NS246943S18  |             |      |       |
| 18  | 116 | 11  | 601.1607 | WASHER               | NS246943S19  |             |      |       |
|     |     | 10  | 646.3411 | RH VIPER DEFLECTOR   |              |             |      |       |
|     |     | 9   | 646.3410 | LH VIPER DEFLECTOR   |              |             |      |       |
|     |     | 8   | 646.3513 | STRUT                |              |             |      |       |
|     |     | 7   | 646.3512 | STRUT                |              |             |      |       |
|     |     | 6   | 646.3511 | STRUT                |              |             |      |       |
|     |     | 5   | 646.3510 | STRUT                |              |             |      |       |
| 2   | 2   | 4   | 646.3810 | BRACKET              |              |             |      |       |
|     | 1   | 3   | 646.2910 | DEFLECTOR            |              |             |      |       |
|     |     | 2   | 646.3001 | LOWER CUTTER ASSY    |              |             |      |       |
|     |     | 1   | 646.3301 | UPPER CUTTER ASSY    |              |             |      |       |
| X   | X   |     | 646.4004 | FIXED PROVISIONS KIT |              |             |      |       |
| X   | X   |     | 646.4003 | FIXED PROVISIONS KIT |              |             |      |       |
| X   | X   |     | 646.4002 | FIXED PROVISIONS KIT |              |             |      |       |
| X   | X   |     | 646.4001 | FIXED PROVISIONS KIT |              |             |      |       |
| ASH | ASB | ASC | ADD      | FIND #               | PART #       | DESCRIPTION | MATL | SPEC. |

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRUC ☒ ICA ☒ BOM

CHANGE CATEGORY  
☐ MAJOR ☒ MINOR

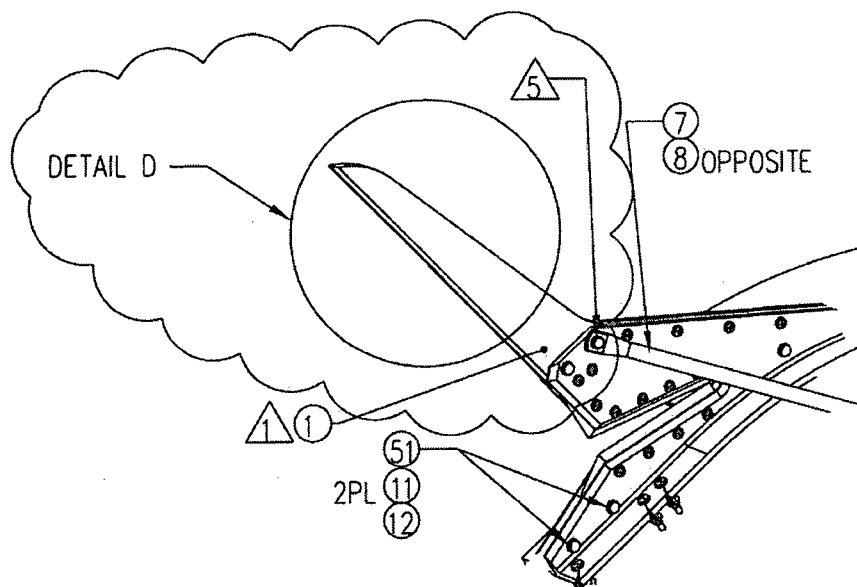
DER REVIEW REQUIRED  
☐ YES ☒ NO

|   |                                      |                        |                        |                 |   |  |
|---|--------------------------------------|------------------------|------------------------|-----------------|---|--|
| <h1 style="margin: 0;">APICAL</h1> <p style="margin: 0;">INDUSTRIES, INC.</p> | ENGINEERING CHANGE NOTICE NO. 03046  |                        |                        |                 | SHEET 1 OF 1  |  |
|   | DWG NO. 646.4000                     | REV: A                 | PREPARED BY J. JACKSON | DATE: 01/24/11  | EFFECT ON DWG<br><input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC. |  |
|   | DWG TITLE: AS350 CABLE CUTTERS KIT   |                        |                        |                 |   |  |
|   | APPROVED BY: ENGR <i>[Signature]</i> | MFG <i>[Signature]</i> | QC <i>[Signature]</i>  | EFF: NEXT ORDER |   |  |
| TRANSACTION CODES (TC):<br>A-ADD C-CREATE<br>R-REVISE D-DELETE                |                                      |                        |                        |                 |   |  |
| REASON: ADDED GPS MOUNT KIT, F/N 65. REVISED DRAWING VIEWS.<br>ADDED NOTE 7   |                                      |                        |                        |                 |   |  |

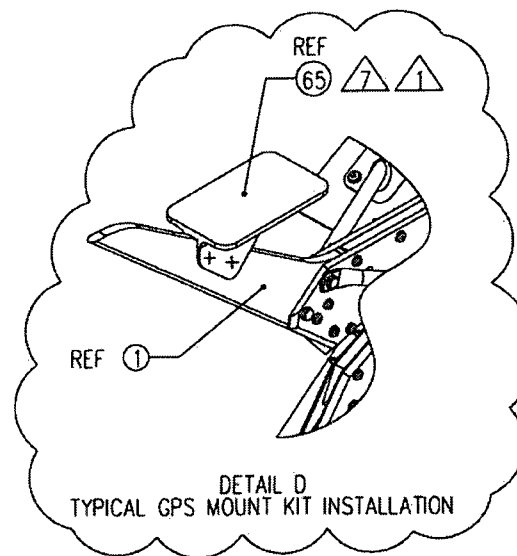
SHEET 1, ZONE B1 IS:

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A4 IS:



SHEET 2, ZONE B2 IS:



|   |    |             |      |               |  |   |               |
|---|----|-------------|------|---------------|--|---|---------------|
| 65  | A  | 647.5701    | REF  | GPS MOUNT KIT |  | 7   |               |
| F/N   | TC | PART NUMBER | QTY  | DESCRIPTION   |  | MATERIAL  | SPECIFICATION |
|   |    |             | 4001 |               |  |   |               |
| DOCUMENTS EFFECTED:   |    |             |      |               |  | CHANGE CATEGORY<br><input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR |               |
| <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRU <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM |    |             |      |               |  | DER REVIEW REQUIRED<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  |               |

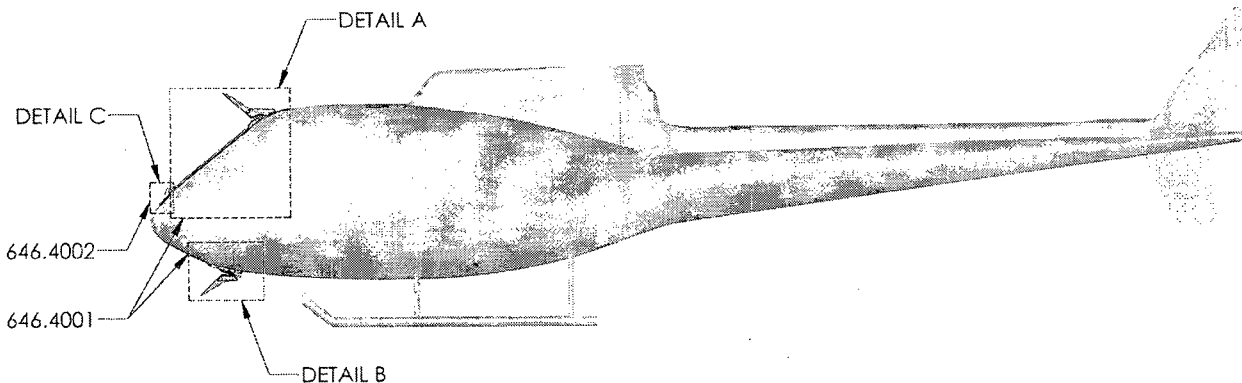
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# NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR: MCMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE  
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT

UNLESS STATED ECN(S)

03046, 03079,

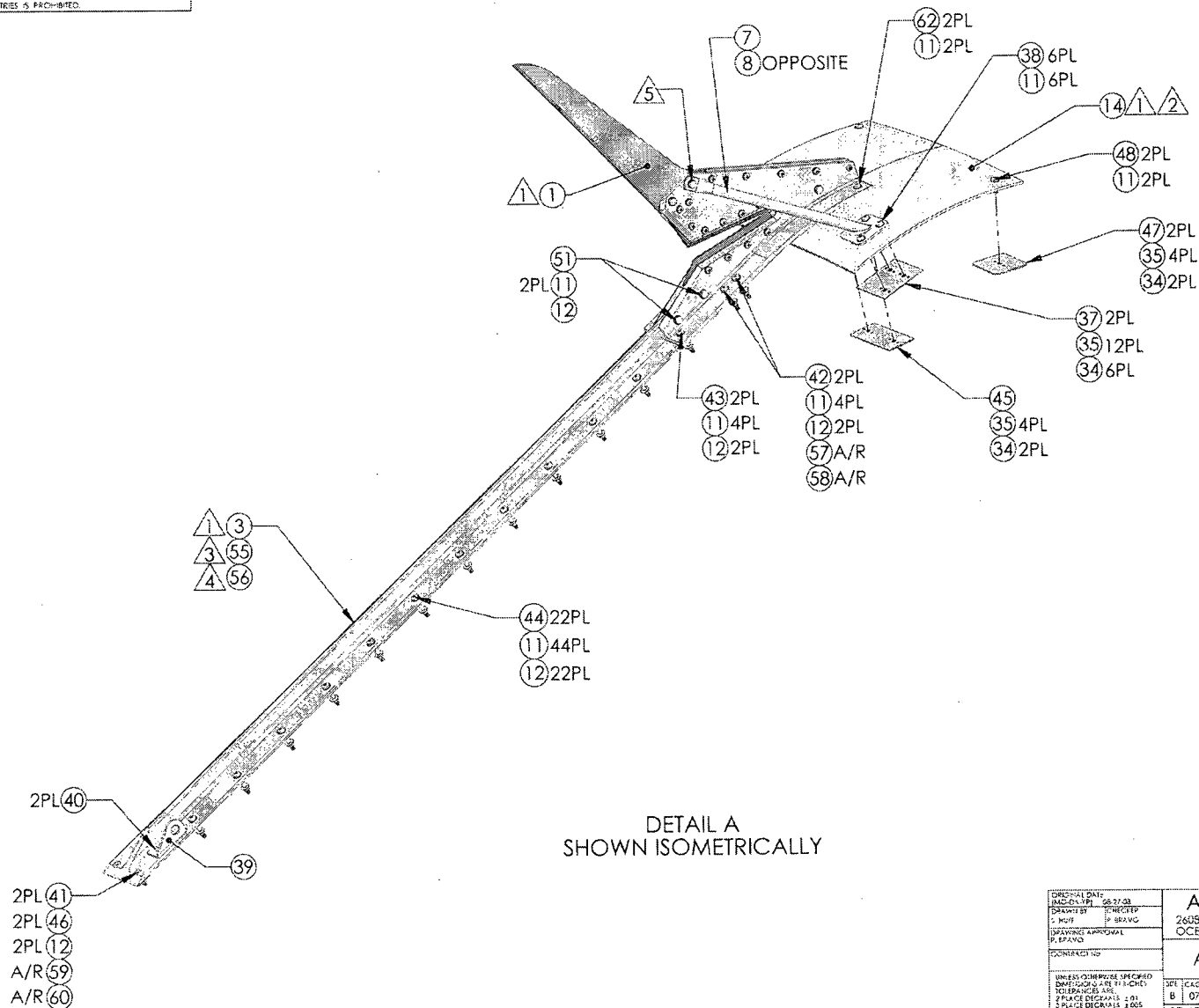


| QTY | UNIT | FIND # | PART #   | DESCRIPTION | MATL         | SPEC. |
|-----|------|--------|----------|-------------|--------------|-------|
| 6   |      | 64     | 601.3151 | WASHER      | MS21440300P  |       |
| 2   |      | 63     | 601.2911 | SCREW       | MS224494553  |       |
|     |      | 62     | 601.2637 | SCREW       | MS22039-1-12 |       |
|     |      | 61     | 601.2763 | BOLT        | ANS-12A      |       |
|     |      | 60     | 646.3913 | SHIM        |              |       |
|     |      | 59     | 646.3912 | SHIM        |              |       |
|     |      | 58     | 646.3911 | SHIM        |              |       |

| QTY | UNIT | FIND # | PART #   | DESCRIPTION               | MATL            | SPEC. |
|-----|------|--------|----------|---------------------------|-----------------|-------|
| 4   |      | 57     | 646.3910 | SHIM                      |                 |       |
| 5   |      | 56     | 600.1013 | PRIMER                    |                 |       |
| 5   |      | 55     | 600.0129 | VHB TAPE                  |                 |       |
| 1   |      | 54     | 600.1012 | SEALANT                   | PP-1425 CL-55 B |       |
| 1   |      | 53     | 600.0991 | MAGNABOND 5398 PART B     |                 |       |
| 1   |      | 52     | 600.0990 | MAGNABOND 5398 PART A     |                 |       |
| 8   |      | 51     | 601.2822 | BOLT                      | ANS-11A         |       |
| 2   |      | 50     | 646.3814 | WIPER BRACKET             |                 |       |
| 2   |      | 49     | 601.2910 | SCREW                     | MS22039-1-18    |       |
| 2   |      | 48     | 601.1365 | SCREW                     | MS22039-1-10    |       |
| 2   |      | 47     | 646.3719 | DOUBLER                   |                 |       |
| 2   |      | 46     | 646.3718 | CUSTOM WASHER             |                 |       |
| 1   |      | 45     | 646.3717 | DOUBLER                   |                 |       |
| 2   |      | 44     | 601.1948 | SCREW                     | MS22039-1-19    |       |
| 2   |      | 43     | 601.1952 | SCREW                     | MS22039-1-20    |       |
| 4   |      | 42     | 601.1956 | SCREW                     | MS22039-1-21    |       |
| 2   |      | 41     | 601.2829 | SCREW                     | MS24694554      |       |
| 2   |      | 40     | 601.2831 | RIVET                     | MS20426AD5-7    |       |
| 1   |      | 39     | 646.3716 | GAUGE BRACKET             |                 |       |
| 6   |      | 38     | 601.1953 | SCREW                     | MS22039-1-12    |       |
| 2   |      | 37     | 646.3715 | STRUT DOUBLER             |                 |       |
| 2   |      | 36     | 601.2824 | BOLT                      | ANS-5A          |       |
| 36  |      | 35     | 601.2277 | RIVET                     | CC82-456-842    |       |
| 18  |      | 34     | 600.0795 | NUTPLATE                  | MS21047-3       |       |
| 3   |      | 33     | 601.2565 | RIVET                     | MS20470AD5-7    |       |
| 1   |      | 32     | 646.3813 | STRUT BRACKET             |                 |       |
| 4   |      | 31     | 601.2822 | BOLT                      | ANS-3A          |       |
| 2   |      | 30     | 646.3812 | GUSSET BRACKET            |                 |       |
| 8   |      | 29     | 601.2564 | RIVET                     | MS20470AD5-6    |       |
| 1   |      | 28     | 646.3714 | GUSSET                    |                 |       |
| 1   |      | 27     | 646.3610 | FILLER                    |                 |       |
| 1   |      | 26     | 601.2830 | SCREW                     | MS24694555      |       |
| 2   |      | 25     | 601.2825 | BOLT                      | ANS-5A          |       |
| 1   |      | 24     | 646.3811 | RADIUS BLOCK              |                 |       |
| 1   |      | 23     | 646.3712 | CLIP                      |                 |       |
| 1   |      | 22     | 646.3711 | CLIP                      |                 |       |
| 8   |      | 21     | 601.2832 | RIVET                     | MS20470AD5-8    |       |
| 14  |      | 20     | 601.2020 | RIVET                     | CR3213-5-3      |       |
| 10  |      | 19     | 601.2823 | BOLT                      | ANS-6A          |       |
| 1   |      | 18     | 601.2827 | BOLT                      | ANS-13A         |       |
| 5   |      | 17     | 601.2912 | SCREW                     | MS24694551      |       |
| 1   |      | 16     | 646.3713 | GUSSET                    |                 |       |
| 1   |      | 15     | 646.3210 | SUPPORT                   |                 |       |
| 1   |      | 14     | 646.3710 | DOUBLER                   |                 |       |
| 1   |      | 13     | 646.3110 | CHANNEL                   |                 |       |
| 6   |      | 12     | 601.1624 | LOCKNUT                   | MS21047-2       |       |
| 16  |      | 11     | 601.1607 | WASHER                    | MS21440300P     |       |
| 1   |      | 10     | 646.3411 | RH WIPER DEFLECTOR        |                 |       |
| 1   |      | 9      | 646.3410 | LH WIPER DEFLECTOR        |                 |       |
| 1   |      | 8      | 646.3513 | STRUT                     |                 |       |
| 1   |      | 7      | 646.3512 | STRUT                     |                 |       |
| 1   |      | 6      | 646.3511 | STRUT                     |                 |       |
| 1   |      | 5      | 646.3510 | STRUT                     |                 |       |
| 2   |      | 4      | 646.3810 | BRACKET                   |                 |       |
| 1   |      | 3      | 646.2910 | DEFLECTOR                 |                 |       |
| 1   |      | 2      | 646.3301 | LOWER CUTTER ASSY         |                 |       |
| 1   |      | 1      | 646.3301 | UPPER CUTTER ASSY         |                 |       |
| 1   |      | 1      | 646.4002 | AS350 WIPER DEFLECTOR KIT |                 |       |
| 1   |      | 1      | 646.4001 | AS350 CABLE CUTTERS KIT   |                 |       |

|               |  |   |  |  |  |
|---------------|--|---|--|--|--|
| NEXT ASSY (S) |  | ORIGINAL DATE<br>REVISED DATE<br>C. HUBB<br>F. BRANCO<br>DRAWING APPROVAL<br>DATE<br>COMPLETION |  | <b>APICAL INDUSTRIES</b><br>2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300<br><b>AS350 CABLE CUTTERS KIT</b> |  |
| QTY           |  | CASE CODE<br>B 07M26  |  | REV<br>A   |  |
| SCALE NONE    |  | SHEET 1 OF 4  |  |  |  |

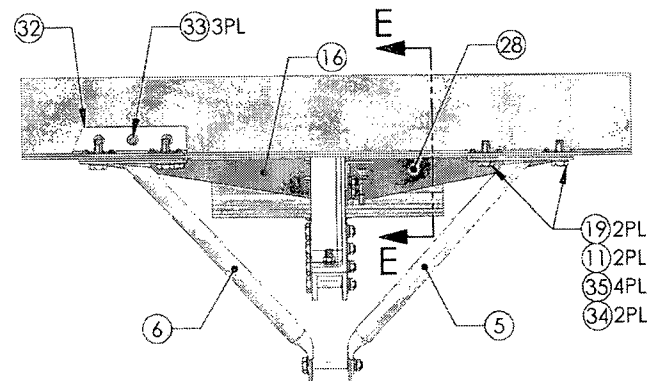
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APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



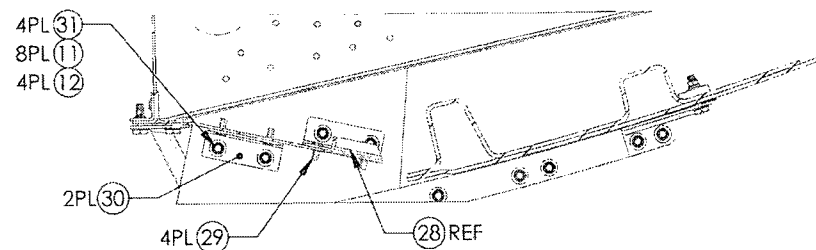
DETAIL A  
SHOWN ISOMETRICALLY

|                           |           |   |      |
|---------------------------|-----------|---|------|
| ORIGINAL DATE<br>08-27-08 |           | APICAL INDUSTRIES   |      |
| DRAWN BY<br>S. HOF        |           | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5900  |      |
| CHECKED BY<br>P. BRAY     |           | AS350 CABLE CUTTERS KIT   |      |
| DESIGNED BY<br>P. BRAY    |           | UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>FRACTIONS DECIMALS<br>FRACTIONS DECIMALS<br>ANGLES ± ° |      |
| REV                       | CAGE CODE | QTY. NO.  | QTY. |
| B                         | 07A126    | 646.4000  | 1    |
| SCALE: NONE               |           | SHEET 2 OF 4  |      |

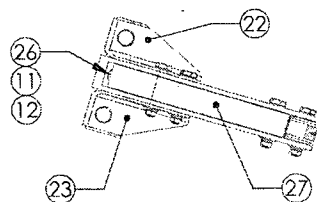
| KEYS |             |      |          |
|------|-------------|------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
|      |             |      |          |
|      |             |      |          |
|      |             |      |          |



SECTION D-D  
CUTTER HIDDEN FOR CLARITY



SECTION E-E



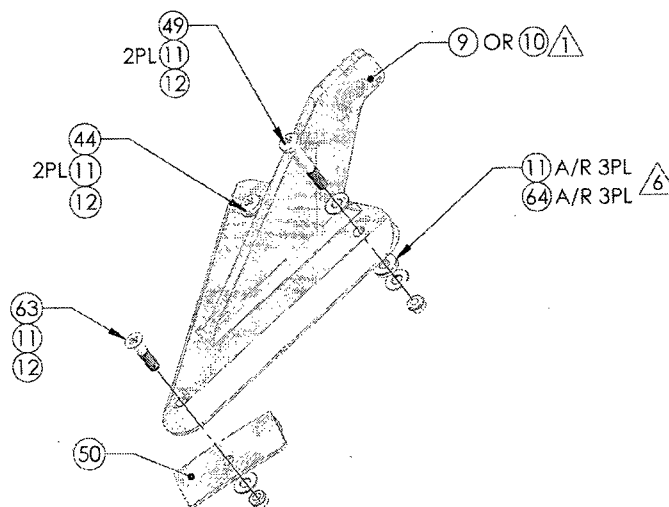
SECTION C-C

DETAIL B  
LH SIDE SHOWN WITH AIRFRAME

[illegible]

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| REVISE |             | DATE | APPROVED |
|--------|-------------|------|----------|
| REV    | DESCRIPTION |      |          |
|        |             |      |          |
|        |             |      |          |



DETAIL C  
LH SHOWN EXPLODED  
RH OPPOSITE

|   |                            |   |                             |           |
|---|----------------------------|---|-----------------------------|-----------|
| ORIGINAL DATE<br>06-01-98 08-27-08  |                            | <b>APICAL INDUSTRIES</b><br>2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760) 724-5300 |                             |           |
| DESIGNED BY<br>S. HUBB  | ENGINEERED BY<br>P. BAYARD |   |                             |           |
| DRAWING APPROVAL<br>P. BAYARD<br>08/27/08   |                            |   |                             |           |
| CONTRACT NO.  |                            |   |                             |           |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±.01<br>3 PLACE DECIMALS ±.005<br>ANGLES ±.5° |                            | DATE<br>07/12/08  | DWG. NO.<br><b>646.4000</b> | REV.<br>A |
|   |                            | SCALE<br>NONE   | SHEET<br>4 OF 4             |           |

1. Approving National Aviation  
Authority/Country:

FAA/UNITED STATES

2.

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: Page 1 of 3

MG13-078

4. Organization Name and Address:

Apical Industries, Inc.  
2608 Temple Heights Drive  
Oceanside, CA 92056

PQ1886NM

5. Work Order/Contract/Invoice Number:

Shipper # 12443  
P.O. # AS350-CCK/0019331

| 6. Item: | 7. Description:   | 8. Part Number: | 9. Eligibility: * | 10. Quantity: | 11. Serial/Batch Number: | 12. Status/Work: |
|----------|-------------------|-----------------|-------------------|---------------|--------------------------|------------------|
| 1.       | Upper Cutter Assy | 646.3301        | N/A               | 16            | 119640-3                 | New              |
| 2.       | Lower Cutter Assy | 646.3001 -      |                   | 20            | 119737-1                 |                  |
| 3.       | Deflector         | 646.2910 -      |                   | 17            | 119572-1                 |                  |
| 4.       | Doubler           | 646.3710        |                   | 2             | 113434-1                 |                  |
| 5.       | Strut Doubler     | 646.3715        |                   | 2             | 114916-7                 |                  |
| 6.       | Gusset            | 646.3714        |                   | 2             | 113434-3                 |                  |
| 7.       | Doubler           | 646.3715        |                   | 2             | 113434-4                 |                  |
| 8.       | Shim              | 646.3911        |                   | 2             | 113080-5                 |                  |
| 9.       | Gusset            | 646.3713        |                   | 3             | 113434-2                 |                  |
| 10.      | Bracket           | 646.3810        |                   | 6             | 113012-4                 |                  |
| 11.      | Support           | 646.3210        |                   | 4             | 114263-3                 |                  |
| 12.      | Gusset Bracket    | 646.3812        |                   | 8             | 113579-1                 |                  |
| 13.      | Strut Bracket     | 646.3813        |                   | 5             | 112165-3                 |                  |
| 14.      | Shim              | 646.3910        |                   | 26            | 114916-5                 |                  |
| 15.      | Shim              | 646.3912        |                   | 26            | 114916-6                 |                  |
| 16.      | Channel           | 646.3110        |                   | 7             | 118257-8                 |                  |

13. Remarks: EXPORT AIRWORTHINESS APPROVAL

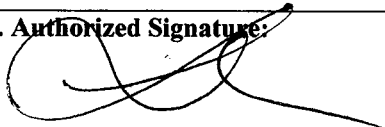
- A. These parts listed in Block 7. are subcomponents of a PMA Article
- B. Bilateral Agreement - None
- C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.
- D. Last item entered.....

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13.

15. Authorized Signature:



16. Approved/Authorization No.:

DMIR 606259-NM

17. Name (Typed or Printed):

Lisa Mansfield

18. Date (m/d/y):

March 18, 2013

## User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation  
Authority/Country:

FAA/UNITED STATES

2.

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: Page 2 of 3

MG13-078

4. Organization Name and Address:

Apical Industries, Inc.  
2608 Temple Heights Drive  
Oceanside, CA 92056

PQ1886NM

5. Work Order/Contract/Invoice Number:

Shipper # 12443

P.O. # AS350-CCK/001933

| 6. Item: | 7. Description: | 8. Part Number: | 9. Eligibility: * | 10. Quantity: | 11. Serial/Batch Number:    | 12. Status/Work: |
|----------|-----------------|-----------------|-------------------|---------------|-----------------------------|------------------|
| 17.      | Strut           | 646.3512        | N/A               | 12            | 111971-3                    | New              |
| 18.      | Doubler         | 646.3719        |                   | 24            | 117341-6                    |                  |
| 19.      | Strut           | 646.3510        |                   | 14            | 117341-2                    |                  |
| 20.      | Strut           | 646.3511        |                   | 14            | 117341-3                    |                  |
| 21.      | Clip            | 646.3711        |                   | 13            | 117341-1                    |                  |
| 22.      | Clip            | 646.3712        |                   | 13            | 117341-4                    |                  |
| 23.      | Custom Washer   | 646.3718        |                   | 27            | 117341-5                    |                  |
| 24.      | Gauge Bracket   | 646.3716        |                   | 15            | 117953-1                    |                  |
| 25.      | Filler          | 646.3610        |                   | 17            | 115914-2                    |                  |
| 26.      | Shim            | 646.3913        |                   | 17            | 117953-2                    |                  |
| 27.      | Radius Block    | 646.3811        |                   | 20            | 117651-1                    |                  |
| 28.      | Strut           | 646.3513        |                   | 35            | 11971-1, 115105-1, 115741-3 |                  |
| 29.      | Bolt            | 601.2825        |                   | 192           | 107245-1, 119183-2          |                  |
| 30.      | Bolt            | 601.2827        |                   | 69            | 106824-1, 114455-1          |                  |
| 31.      | Bolt            | 601.2763        |                   | 206           | 41764-3, 46468-1            |                  |
| 32.      | Screw           | 601.2830        |                   | 149           | 41769-8, 107245-8           |                  |

13. Remarks: EXPORT AIRWORTHINESS APPROVAL

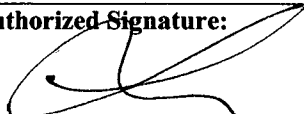
- A. These parts listed in Block 7. are subcomponents of a PMA Article  
B. Bilateral Agreement - None  
C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.  
D. Last item entered.....

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13.

15. Authorized Signature:



16. Approved/Authorization No.:

DMIR 606259-NM

17. Name (Typed or Printed):

Lisa Mansfield

18. Date (m/d/y):

March 18, 2013

## User/Installer Responsibilities

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1. Approving National Aviation  
Authority/Country:

FAA/UNITED STATES

2.

# AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: Page 3 of 3

MG13-078

4. Organization Name and Address:

Apical Industries, Inc.

2608 Temple Heights Drive

Oceanside, CA 92056

PQ1886NM

5. Work Order/Contract/Invoice Number:

Shipper # 12443

P.O. # AS350-CCK / 0019331

| 6. Item: | 7. Description:           | 8. Part Number: | 9. Eligibility: * | 10. Quantity: | 11. Serial/Batch Number:     | 12. Status/Work: |
|----------|---------------------------|-----------------|-------------------|---------------|------------------------------|------------------|
| 33.      | Rivet                     | 601.2831        | N/A               | 604           | 76557-10, 107245-7, 115478-4 | New              |
| 34.      | LH Wiper Deflector        | 646.3410        |                   | 15            | 110777-1                     |                  |
| 35.      | AS350 Wiper deflector Kit | 646.4002        |                   | 4             | 031, 032, 033, 034           |                  |
| 36.      | RH Wiper Deflector        | 646.3411        |                   | 16            | 118480-1                     |                  |
| 37.      | Wiper Bracket             | 646.3814        |                   | 45            | 107056-3, 116390-2           |                  |

13. Remarks: EXPORT AIRWORTHINESS APPROVAL

A. These parts listed in Block 7. are subcomponents of a PMA Article

B. Bilateral Agreement - None

C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.

D. Last item entered.....

14. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 13

15. Authorized Signature:

16. Approved/Authorization No.:

DMIR 606259-NM

17. Name (Typed or Printed):

18. Date (m/d/y):

Lisa Mansfield

March 18, 2013

## User/Installer Responsibilities

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Work Order ID 99537

\*99537\*

Thursday, April 11, 2013 9:48:59 AM

Page 1

Item ID: 646.4003

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: AS350 Cable Cutter w/o Fixed Provisions

Start Date: 4/11/2013 Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 4/12/2013 Req'd Qty: 1.00

\*1\*

Customer:

Reference:

Run Start \*NR1\*

Approvals:

Process Plan:

*MF*

Date: 13-4-1

Tooling:

Date:

Stop \*NR2\*

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

646.4000

A

*JB*

*MLS 13-04-12*

100

0.00

\*100\*

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP 646.4003

110

Pick Kit

0.00

\*110\*

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

\*120\*

QC

Memo

0.00

Quality Control